

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/079822 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 35/36**,  
38/36, A61L 27/60, A61P 17/02

Glossop SK13 5DD (GB). **SHERING, Andrew** [GB/GB];  
62 Newport Road, Chorlton, Manchester M21 9NN (GB).  
**MCWHAN, Michael** [GB/GB]; 127 Woolley Bridge  
Road, Hadfield, Glossop, Derbyshire SK13 1 PZ (GB).

(21) International Application Number:  
PCT/GB2005/000523

(74) Agent: **ROBERTS, Michael, Austin**; Reddie & Grose, 16  
Theobalds Road, London WC1X 8PL (GB).

(22) International Filing Date: 14 February 2005 (14.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0403220.7 13 February 2004 (13.02.2004) GB  
0403226.4 13 February 2004 (13.02.2004) GB  
60/556,194 25 March 2004 (25.03.2004) US  
60/556,155 25 March 2004 (25.03.2004) US  
0426252.3 30 November 2004 (30.11.2004) GB  
60/632,425 1 December 2004 (01.12.2004) US

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(71) Applicant (for all designated States except US): **INTER-  
CYTEX LIMITED** [GB/GB]; Innovation House, Oaks  
Business Park, Crewe Road, Wythenshawe, Manchester  
M29 9QR (GB).

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KEMP, Paul**  
[GB/GB]; 16 Chadkirk Road, Romily, Stockport SK6 3JY  
(GB). **TALAS, Györgyi** [GB/GB]; 9 Oldfield Drive, Tim-  
perley, Altrincham WA15 6RU (GB). **SUTHERLAND,**  
**Jennifer** [GB/GB]; 34 Pintail Avenue, Stockport, Cheshire  
SK3 8UN (GB). **BATTEN, Margaret** [GB/GB]; 63  
Ormskirk Road, Rainford, St Helens (GB). **JOHNSON,**  
**Penelope, Ann** [GB/GB]; 30 Lee Head, Charlesworth,

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: WOUND HEALING COMPOSITION

(57) Abstract: The present invention relates to compositions and methods for tissue regeneration, particularly for treating skin lesions such as wounds. In one aspect, the invention provides a wound healing composition comprising living cells such as fibroblasts within a support matrix such as fibrin, in which the cells have a wound healing phenotype, and in which the composition is single layered and has been incubated for up to about 8 days to allow development of the wound healing phenotype. The compositions and methods of the invention are useful especially for assisting the process of wound healing, particularly chronic open lesions that are slow to heal or resistant to healing.



WO 2005/079822 A2